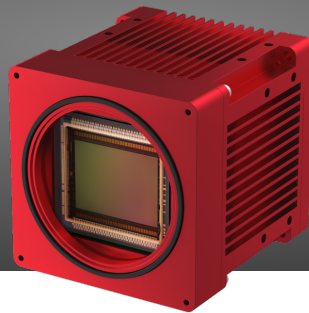


CA Series Data Sheet

PN: 202208002, Model: C6-S7-4090-CA-S0-M-1G



The CA camera series impresses with its high flexibility and powerful performance for a wide variety of industrial image processing tasks. It offers resolutions from 1280 to 4090 pixels and can be easily integrated into existing systems thanks to Gigabit Ethernet and the GenICam standard. The cameras are ideal for complex multi-sensor applications, compatible with custom components, and available in various Scheimpflug configurations and model variants. This makes the CA series the ideal choice for versatile and demanding industrial applications.

- **High-resolution 3D industrial cameras with 1280–4090 pixels**
- **Versatile for a wide range of industrial applications**
- **Flexible integration via Gigabit Ethernet and GenICam**
- **Optimal for complex multi-sensor applications**
- **Available with various Scheimpflug configurations**



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AT - Automation Technology GmbH
Hermann-Bössow-Straße 6-8
23843 Bad Oldesloe

AT - Automation Technology, Inc.
380 Main Street, Suite 203
Stoneham, MA 02180

www.at-sensors.com
support@automationtechnology.de
+49 (0)4531 / 88011-42

Model Information

Model name	C6-S7-4090-CA-S0-M-1G
Part number	202208002

Detector/Performance specifications

Detector	CMOS Global Shutter
Resolution	4096 x 3072 pixels
Physical size	22.528 x 16.896 mm
Pixel size	5.5 x 5.5 µm
Points per profile	4096
Profile speed at 200 rows	2092.0 Hz
Maximum profile speed	24875.0 Hz

Interface specifications

Ethernet	Gigabit-Ethernet 1.000 Mbit/s
Encoder	A+, A-, B+, B-, Z+, Z- RS-422 TTL
Digital inputs	2x isolated digital inputs 5V - 24V DC
Digital outputs	2x isolated digital outputs 5V - 24V DC
Analog output	1x isolated analog output 0V - 5V DC

Electrical/Mechanical specifications

Power supply	12V - 24V DC 27V DC Max.
Power consumption	12 W
Connectors	Power&I/O: M12-Connector 17-pin Ethernet: M12-Connector 8-pin A-coded
Housing material	Anodized aluminum
Dimensions (L x W x H)	59.5 x 55.0 x 55.0 mm
Weight	540.0 g

Environmental conditions

Temperatures	Operating: 0 °C - +40 °C Storage: -20 °C - +80 °C
Humidity	20 % - 80 % (non-condensing)
Vibration resistance	Sinusoidal: DIN EN 60068-2-6:2008-10: 2g 10 Hz - 150 Hz Random: DIN EN 60068-2-64:2020-09: 7g 10 Hz - 500 Hz
Shock resistance	DIN EN 60068-2-27: 2010-02: 15 g 3 ms
Protection class	IP10 According to IEC 60529

Software/Features

Supported standards	GenICam GigEVision
Firmware features	RegionTracking RegionSearch MultiRegion MultiPart AutoStart HistoryBuffer MultiSlope MultiPeak
Software	SolutionPackage MetrologyPackage cxSDK with wrappers for C, C++, Python and Matlab



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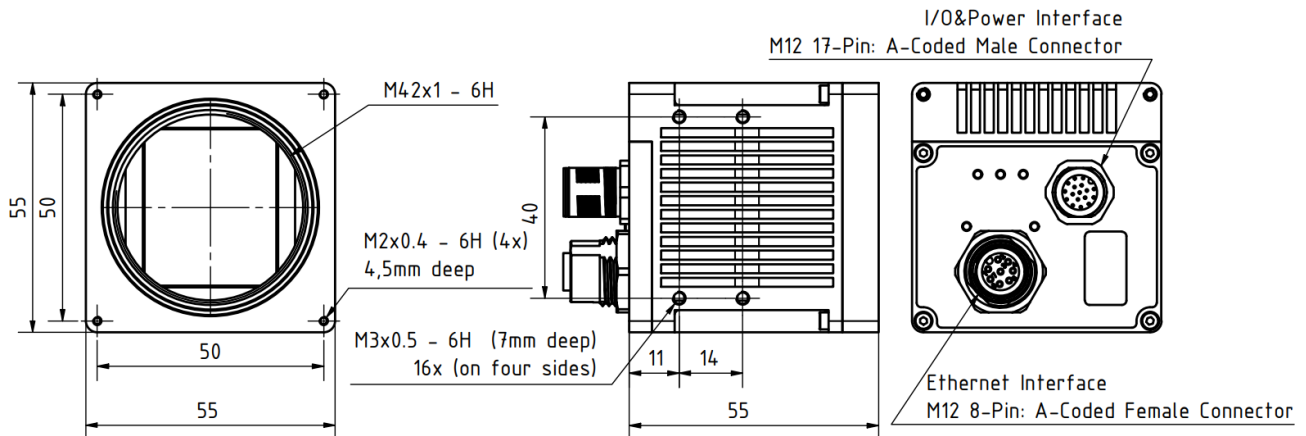
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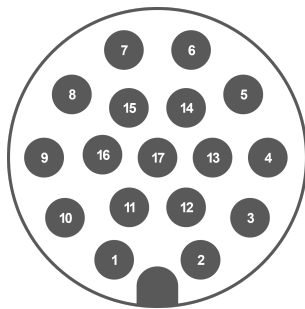
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Dimensions



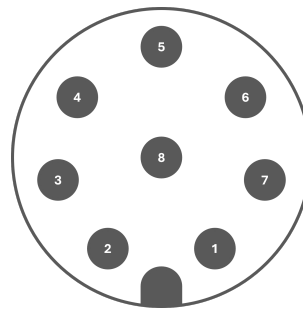
Connectors

M12 17-Pin: A-Coded Male Connector



1	ENC_Z-
2	AOUT
3	ENC_Z+
4	ENC_B+
5	GND
6	ENC_B-
7	ENC_A-
8	VCC_EXT
9	GND_EXT
10	ENC_A+
11	ENC_GND
12	OUT2
13	IN1
14	IN2
15	OUT_Supply
16	OUT1
17	IO_GND
Shield	SHIELD

M12 8-Pin: A-Coded Female Connector



1	BI_DC-
2	BI_DD+
3	BI_DD-
4	BI_DA-
5	BI_DB+
6	BI_DA+
7	BI_DC+
8	BI_DB-
Shield	SHIELD


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